

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re reissue application of: U.S. Patent No. 5,898,394

Serial No.: Unknown

Filing Date: Herewith

For: CODE CONVERSION METHOD AND APPARATUS, CODE  
RECORDING MEDIUM, CODE RECORDING APPARATUS AND CODE  
REPRODUCING APPARATUS

Examiner: Unknown

Art Unit: Unknown

**Box Reissue**  
**Assistant Commissioner for Patents**  
**Washington, D.C. 20231**

**PRELIMINARY AMENDMENT**

Sir:

Entry of the following amendments in connection with the above-identified  
reissue application filed concurrently herewith is respectfully requested.

**AMENDMENTS**

**IN THE CLAIMS:**

Please add new claims 37-42 as follows:

37. A method for scrambling data, comprising the steps of:  
generating scramble data having a value which is randomly determined;  
generating a pseudo-random number sequence in accordance with the value of  
the scramble data; and  
generating scrambled data by performing a logical operation on the pseudo-  
random number sequence and data.

38. A method according to claim 37, wherein the value of the scramble data is  
randomly determined on a data unit basis, and each data unit has a predetermined  
size.

39. A method for recording information onto a recording medium, comprising  
the steps of:  
generating scramble data having a value which is randomly determined;  
generating a pseudo-random number sequence in accordance with the value of  
the scramble data;  
generating scrambled data by performing a logical operation on the pseudo-  
random number sequence and data; and  
recording the scramble data and the scrambled data onto the recording medium.

40. A method according to claim 39, wherein the value of the scramble data is  
randomly determined on a data unit basis, and each data unit has a predetermined  
size.

41. A recording medium for recording information thereon,  
wherein scramble data and scrambled data are recorded onto the recording  
medium,  
the scramble data has a value which is randomly determined,

and the scrambled data is obtained by generating a pseudo-random number sequence in accordance with the value of the scramble data and by performing a logical operation on the pseudo-random number sequence and data.

42. A recording medium according to claim 41, wherein the value of the scramble data is randomly determined on a data unit basis, and each data unit has a predetermined size.

### **REMARKS**

Claims 1-42 are pending in this reissue application upon entry of the above amendments. Claims 1-36 represent the original claims from U.S. Patent No. 5,898,394. Claims 37-42 are newly added herein. Favorable consideration of the application, as amended, is respectfully requested.

A Statement of Status and Support for All Changes to the Claims Under 37 CFR §1.173(c) is being filed concurrently herewith.

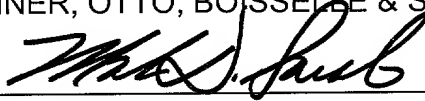
Should the Examiner feel that a telephone or personal interview would be helpful to facilitate favorable prosecution of the above-identified application, the Examiner is invited to contact the undersigned at the telephone number provided below.

Reissue of U.S. Patent No. 5,898,394

Should a petition for an extension of time be necessary for the timely reply to any outstanding Office Action (or if such a petition has been made and an additional extension is necessary), petition is hereby made and the Commissioner is authorized to charge any fees (including additional claim fees) to Deposit Account No. 18-0988.

Respectfully submitted,

RENNER, OTTO, BOISSELLE & SKLAR, LLP



Mark D. Saralino  
Reg. No. 34,243

DATE: April 26, 2001

The Keith Building  
1621 Euclid Avenue  
Nineteenth Floor  
Cleveland, Ohio 44115  
(216) 621-1113

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**Washington, D.C. 20231**

**STATEMENT OF STATUS AND SUPPORT FOR ALL CHANGES TO THE CLAIMS**  
**UNDER 37 CFR §1.173(c)**

Sir:

The following statement of status and support for all changes to the claims is being submitted in connection with the above-identified reissue application filed concurrently herewith.

***I. STATUS OF CLAIMS***

A preliminary amendment is being filed concurrently herewith. Upon entry of the preliminary amendment and as of the date thereof, the status of the claims is as follows:

Claims 1-42 are pending. Claims 1-36 are found in the original patent, and claims 37-42 have been added by way of the aforementioned preliminary amendment.

## **II. SUPPORT FOR CLAIM CHANGES**

The changes made to the claims, to date, consist of the addition of claims 37-42. Support for such claims is found, for example, in Example 4 of the present application. (Col. 25, ln. 4 to Col. 26, ln. 33), and generally with reference to Fig. 8.

In Example 4 of the present application, each data unit format as shown in Fig. 8 includes an SCL section in which scramble data is recorded. (Col. 25, lns. 53-56). The scramble data may be based on random numbers. (Col. 26, lns. 31-33). A pseudo-random number sequence is generated in accordance with the value of the scramble data. (Col. 25, lns. 53-56). Scrambled data is generated by performing a logical operation on the pseudo-random number sequence and data. (Col. 25, lns. 39-44). The scrambled data is recorded onto the recording medium (Col. 25, lns. 53-63).

Referring to the claims specifically, claim 37 recites a method for scrambling data. The method includes the steps of: generating scramble data having a value which is randomly determined (Col. 26, lns. 31-33); generating a pseudo-random number sequence in accordance with the value of the scramble data (Col. 25, lns. 53-56); and generating scrambled data by performing a logical operation on the pseudo-random number sequence and data (Col. 25, lns. 39-44).

Claim 38 refers to the value of the scramble data being randomly determined on a data unit basis, and each data unit has a predetermined size. (Col. 25, lns. 39-44).

Claim 39 defines a method for recording information onto a recording medium. The method includes the steps of: generating scramble data having a value which is randomly determined (Col. 26, lns. 31-33); generating a pseudo-random number sequence in accordance with the value of the scramble data (Col. 25, lns. 53-56); generating scrambled data by performing a logical operation on the pseudo-random number sequence and data (Col. 25, lns. 39-44); and recording the scramble data and the scrambled data onto the recording medium (Col. 25, lns. 53-63).

Claim 40 refers to the value of the scramble data being randomly determined on a data unit basis, and each data unit has a predetermined size. (Col. 25, lns. 39-44).

Claim 41 refers to a recording medium for recording information thereon. Scramble data and scrambled data are recorded onto the recording medium. (Col. 25,

Ins. 53-63). The scramble data has a value which is randomly determined. (Col. 26, Ins. 31-33). The scrambled data is obtained by generating a pseudo-random number sequence in accordance with the value of the scramble data and by performing a logical operation on the pseudo-random number sequence and data. (Col. 25, Ins. 53-56).

Claim 42 recites that the value of the scramble data is randomly determined on a data unit basis, and each data unit has a predetermined size. (Col. 25, Ins. 39-44).

Should the Examiner feel that a telephone or personal interview would be helpful to facilitate favorable prosecution of the above-identified application, the Examiner is invited to contact the undersigned at the telephone number provided below.

Should a petition for an extension of time be necessary for the timely reply to any outstanding Office Action (or if such a petition has been made and an additional extension is necessary), petition is hereby made and the Commissioner is authorized to charge any fees (including additional claim fees) to Deposit Account No. 18-0988.

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